## DEPARTMENT OF NATURAL RESOURCES

- DIVISION OF ENVIRONMENTAL QUALITY -P.O. Box 176 Jefferson City, MO 65102-0176

December 12, 1995

Lori Juergens Shell Engineering 2403 West Ash Columbia, MO 65203

Dear Ms. Juergens:

We have reviewed your proposal of emission factors for each emission point of the briquetting process. We agree that it is a more acceptable way to calculate emissions for each point source rather than using the one emission factor for the entire briquetting process.

Since the new section of AP-42 still uses the 24.1 pounds per ton for Particulate Matter - ten microns or less for the entire process and does not address the individual steps in the briquetting process, we do not have many options except to borrow emission factors from processes as similar as possible to the briquetting sources of air pollution.

Our original list used emission factors from many other industries and we believe that these factors more closely represent the briquetting processes than the factors you proposed. By breaking down the steps, the total of all the emission factors is already lower than the overall factor of 24.1 pounds per ton of charcoal produced. We would consider revising the emission factors if you can provide documentation or testing.

We have revised our original table to correspond with some of the changes in the new Factor Information Retrieval version of emission factors. We have also deleted the Total Suspended Particulate emission factors since those emissions will not be reported on the 1995 Emissions Inventory Questionnaire forms. The revised table is enclosed for your information.

If you have any questions, please contact Janice Eggen of my staff at (314) 751-4817.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Calvin Ku

**Technical Support Section Chief** 

CK:jet

c: Randy Raymond, APCP

**Enclosure** 

## CHARCOAL SCCs and Emission Factors

·			PM10
1.	Charcoal Kiln		21125
	3-01-006-03	Batch Kiln	
		ission Factor (EF)	297.6
<i>.</i>	Units:		
14 L		IA POLLUTANTS:	· •-
٠	Nox 2	4.0 Voc 270 co 290	
2.	Charcoal Unloading		
		Wood Waste Storage Bin Loadout	
	SCC EF		1.2
	Units:	Tons	
			*
3. <sup>`</sup>	Charcoal Storage		
٠.		Raw Material Storage Piles (Lime)	
	SCC EF		1.40
	Units:	Tons	• • • •
	Observation i	nna Din Manna	
4.	Charcoal Loading i	Sawdust Pile Handling	. •
	SCC EF		0.36
	Units:		
			;
_	- 11. 12월 21. 11 <u>-</u> 1 - 1 <u>-</u> 1		•
5.	Conveying Charcoal		
	3-03-016-07 SCC EF	Raw Material Transfer/Conveying (Li	0.18
	Units:	•	<b>0.20</b>
*:			
			,
6.	· Charcoal Crushing		*
	3-05-016-01 SCC EF		0.26
	Units:		0.20
	Onics.		
7.		nto Silo/Hopper/Bin	
		Cement Unloading: Storage Bins	0.14
	SCC EF Units:		0.14
	Units:	Tons	
8.	Pulvarizing Charco	al	
	3-05-016-02	Secondary Crushing	
	SCC EF		1.13
	Units:	Tons	
9.	Screening of Granu	lar Charcoal	
•	3-05-025-11	Screening Sand/Gravel	
	SCC EF		0.12
	Units:	Tons	

10. Lignite/Sawdust/Coal: If available, use SCCs for that category. If no SCC, use the same as for Charcoal Processing.

11. '	Mixing Charcoal Briquet Ingredients 3-05-011-09 Mixer Loading of Cement/Sand/Aggregate 0.02					
	SCC EF	Tons.		r Barto III de la composición		
	Units:	rons.		erification operated the second of the secon		
		* *			•	
12.	Charcoal Mix to Bir	s by Elevat	or Legs			
	3-02-005-08	Feed/Grain	Elevator L	egs	0.23	
	SCC EF		•	_	0.23	
	Units:	Tons				
13	Roll Press Briquett	ting	÷	•		
1.	3-05-016-02	Secondary C	rushing/So	reening (Lime)		
	SCC EF		•	1	1.13	
	Units:	Tons	•.			
	뭐하면 맛있다. 그렇게 하다					
				•	1.	
14.	Briquet Drying/Coo	ling				
	3-05-020-12		19	•	5.0	
	SCC EF Units:					
	Units:	TOILS		•		
			٠	•		
15.	Conveying/Handling	of Briquet:	5		•	
. T. I.	3-05-010-11	Coal Trans:	fer		0.1	
- 1	SCC EF		•		<b>0.1</b>	
	Units:	Tons		•		
		•				
		0+0	• • • • • •		1 4 4 4 5 C	
16.	Screening of Briqu 3-05-010-12	Coal Scree	nina			
	SCC EF			• •	0.08	
		Tons	• • • • • •		<del>-</del> .	
		T	•			
				•		
17.	Bagging of Briquet	:s		-1-		
	3-01-005-08		ading Carb	on Black	0.06	
	SCC EF		•			
٠.	Units:	Tons			* * -	
•	:	•	• •			
18.	Bagging of Granula	r Charcoal				
10.	3-05-016-14	Packaging/	Shipping I	ime	A 11	
	SCC E				0.12	
	Imite	Tons				

Revised 12/1/95